DOCKET NO: 100051.10611

PATENT

SERIAL NO.: 10/695,578 FILED: October 27, 2003

IN THE CLAIMS:

Please add new claims 47-56 as follows.

This listing of claims will replace all prior versions, and listings of the claims in the application.

Listing of the claims

1-23. (Canceled)

- **24.** (Previously presented) A method of treating an individual who has metastasized colorectal cancer comprising the step of administering to such an individual a therapeutic ally effective amount of a vaccine comprising a nucleic acid molecule that encodes a protein comprising at least one epitope of human guanylyl cyclase C protein.
- 25. (Previously presented) A method of treating an individual who has been identified as being susceptible to metastasized colorectal cancer comprising the step of administering to such an individual a prophylactically effective amount of a vaccine comprising a nucleic acid molecule that encodes a protein comprising at least one epitope of human guanylyl cyclase C protein.
- **26.** (Previously presented) The method of claim 24 wherein said protein comprises an epitope of the extracellular domain of the human guanylyl cyclase C protein.
- **27.** (Previously presented) The method of claim 24 wherein said protein comprises the extracellular domain of the human guanylyl cyclase C protein.

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- **28.** (Previously presented) The method of claim 24 wherein the protein comprises the human guanylyl cyclase C protein.
- **29.** (Previously presented) The method of claim 24 wherein the protein consists of the human guanylyl cyclase C protein.
- **30.** (Previously presented) The method of claim 24 wherein the nucleic acid molecule that encodes said protein is within an infectious agent.
- 31. (Previously presented) The method of claim 24 wherein the nucleic acid molecule that encodes said protein is within a viral vector.
- **32.** (Previously presented) The method of claim 31 wherein said viral vector is a recombinant vaccinia virus.
- **33.** (Previously presented) The method of claim 31 wherein said viral vector is a recombinant adenovirus virus.
- **34.** (Previously presented) The method of claim 24 wherein the nucleic acid molecule that encodes said protein is within a bacterial cell.
- 35. (Previously presented) The method of claim 24 wherein the nucleic acid molecule that encodes said protein is a plasmid.

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36. (Previously presented) The method of claim 25 wherein said protein comprises an epitope of the extracellular domain of the human guanylyl cyclase C protein.

- 37. (Previously presented) The method of claim 25 wherein said protein comprises the extracellular domain of the human guanylyl cyclase C protein.
- 38. (Previously presented) The method of claim 25 wherein the protein comprises the human guanylyl cyclase C protein.
- **39.** (Previously presented) The method of claim 25 wherein the protein consists of the human guanylyl cyclase C protein.
- 40. (Previously presented) The method of claim 25 wherein the nucleic acid molecule that encodes said protein is within an infectious agent.
- 41. (Previously presented) The method of claim 25 wherein the nucleic acid molecule that encodes said protein is within a viral vector.
- 42. (Previously presented) The method of claim 41 wherein said viral vector is a recombinant vaccinia virus.
- 43. (Previously presented) The method of claim 41 wherein said viral vector is a recombinant adenovirus virus.

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44. The method of claim 25 wherein the nucleic acid molecule (Previously presented) that encodes said protein is within a bacterial cell.

- 45. (Previously presented) The method of claim 25 wherein the nucleic acid molecule that encodes said protein is a plasmid.
- 46. The method of claim 25 wherein the individual has been (Previously presented) previously been diagnosed with colorectal cancer.
- 47. (New) The method of claim 24 wherein said protein comprises SEQ ID NO:2 or a fragment thereof comprising at least one epitope of amino acids 24-454 of SEQ ID NO:2.
- 48. (New) The method of claim 47 wherein said protein comprises SEQ ID NO:2.
- (New) The method of claim 47 wherein said protein at least one epitope of amino acids 49. 24-454 of SEQ ID NO:2.
- **50.** (New) The method of claim 49 wherein said protein comprises amino acids 24-454 of SEQ ID NO:2.
- (New) The method of claim 49 wherein said protein comprises amino acids 24-475 of 51. SEQ ID NO:2.
- 52. (New) The method of claim 25 wherein said protein comprises SEQ ID NO:2 or a fragment thereof comprising at least one epitope of amino acids 24-454 of SEQ ID NO:2.

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53. (New) The method of claim 52 wherein said protein comprises SEQ ID NO:2.

- **54.** (New) The method of claim 52 wherein said protein at least one epitope of amino acids 24-454 of SEQ ID NO:2.
- 55. (New) The method of claim 54 wherein said protein comprises amino acids 24-454 of SEQ ID NO:2.
- **56.** (New) The method of claim 54 wherein said protein comprises amino acids 24-475 of SEQ ID NO:2.